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GB 0345771

US 3971095

US 3562840

US 4048692

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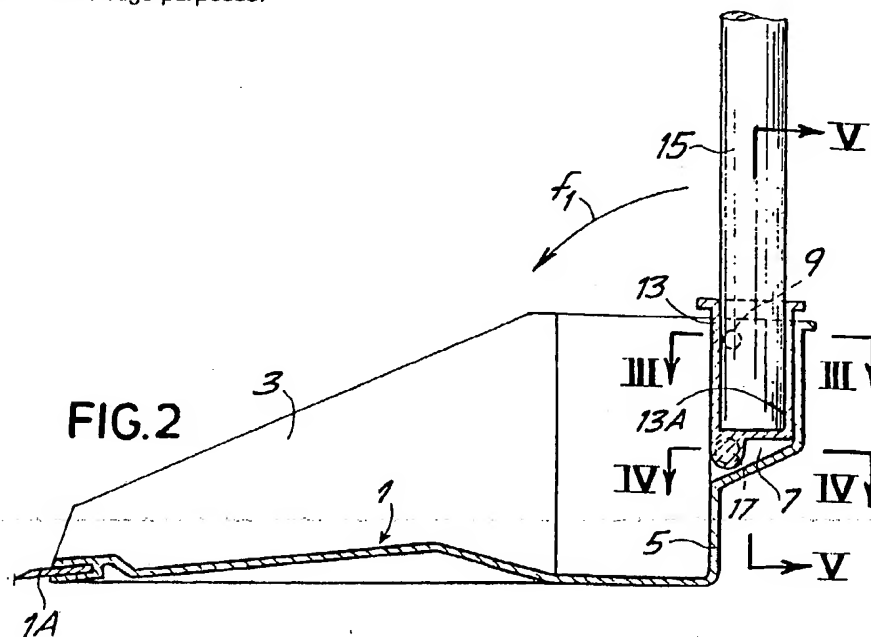
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Selected US specifications from IPC sub-classes A01B

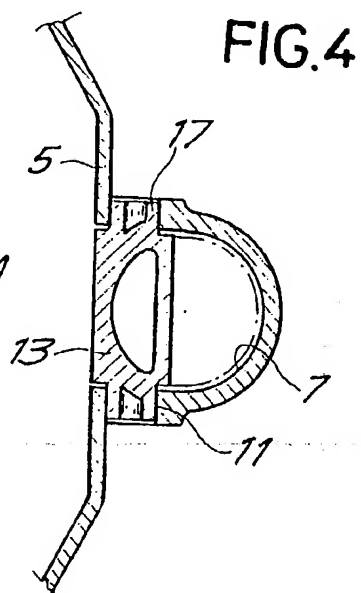
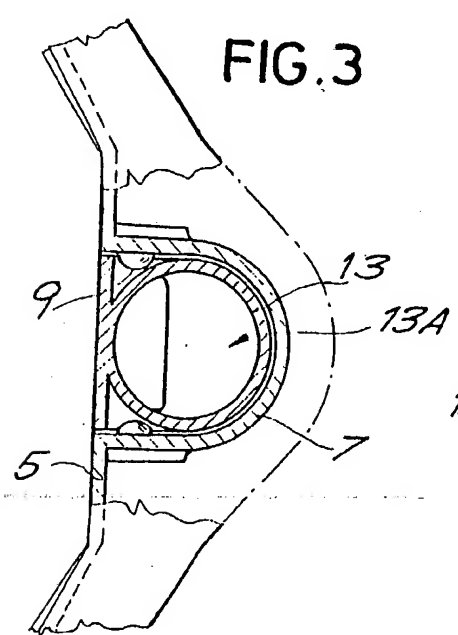
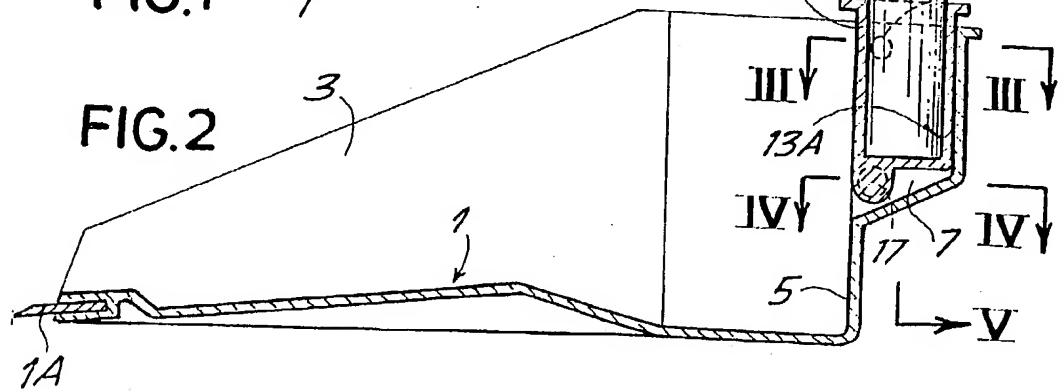
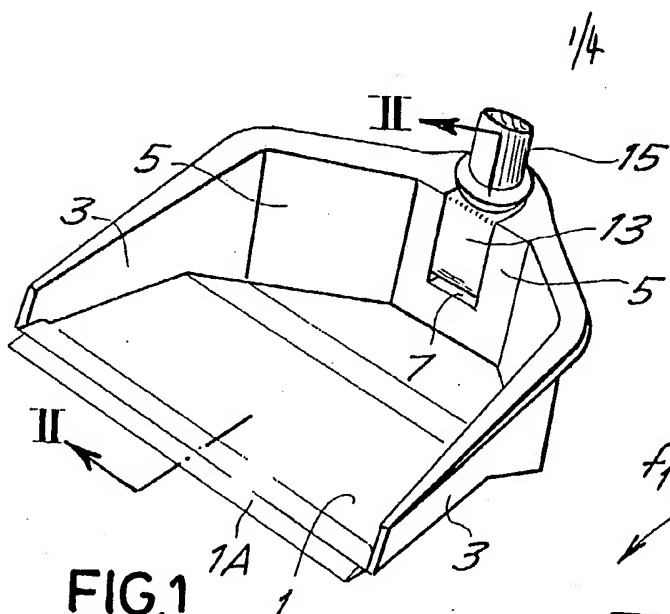
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(54) **Dustpan**

(57) A dustpan comprises a container having a base 1, side walls 3, and rear wall 5 provided with a pivotable socket 13 for the end of handle 15, the arrangement being such that the handle can be lowered onto base 1 for storage purposes.



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FIG.5

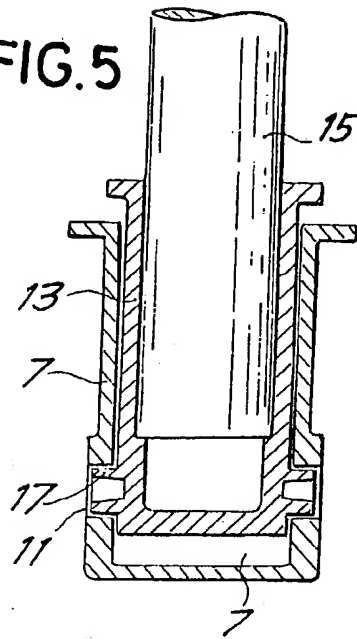


FIG.6

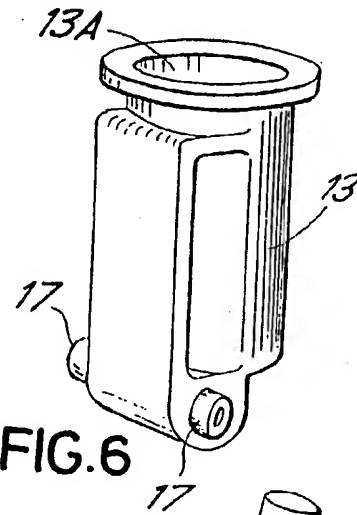


FIG.8

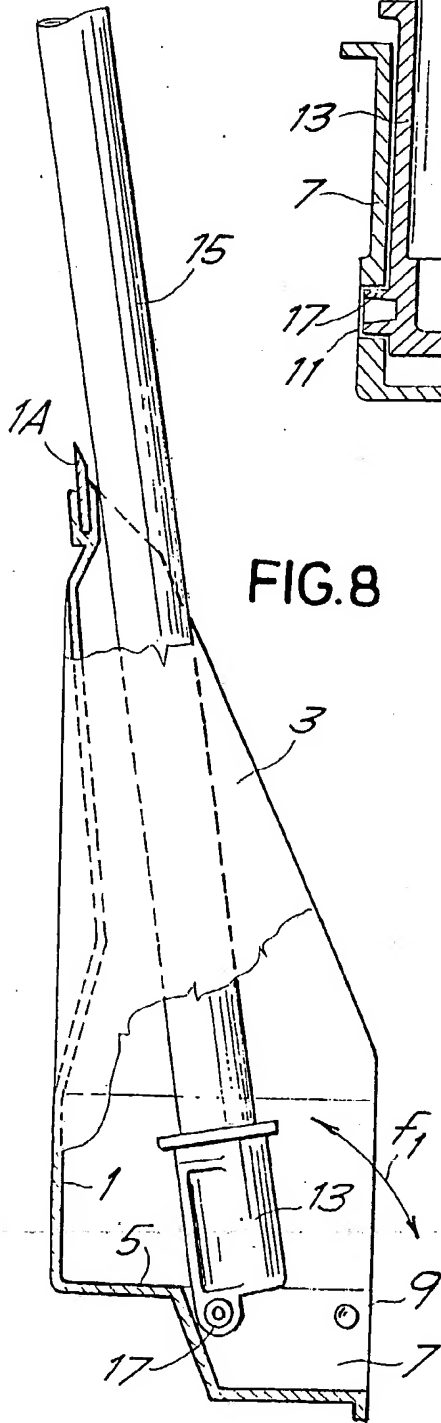
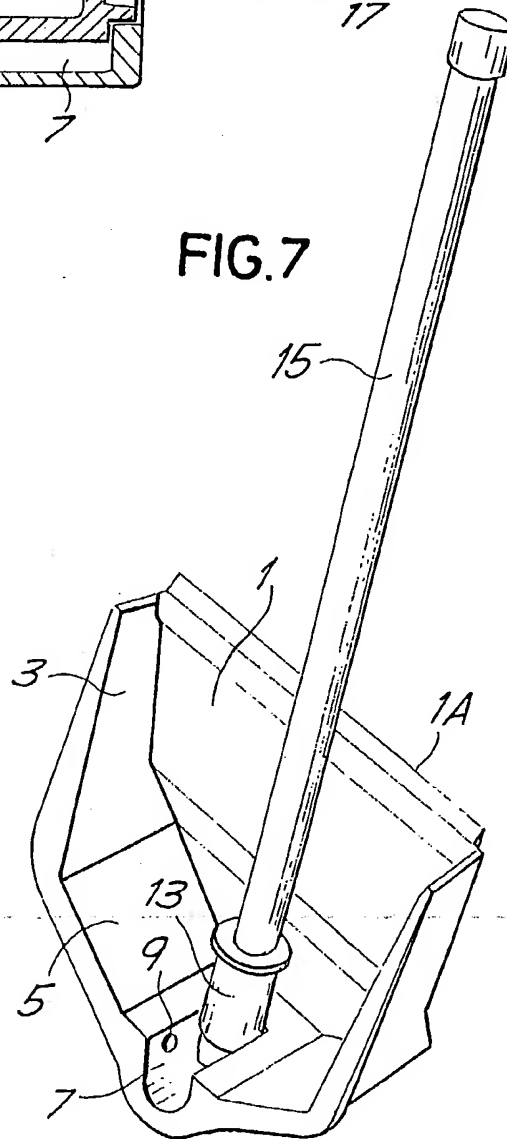
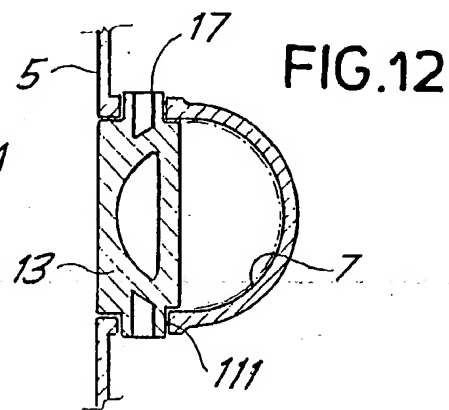
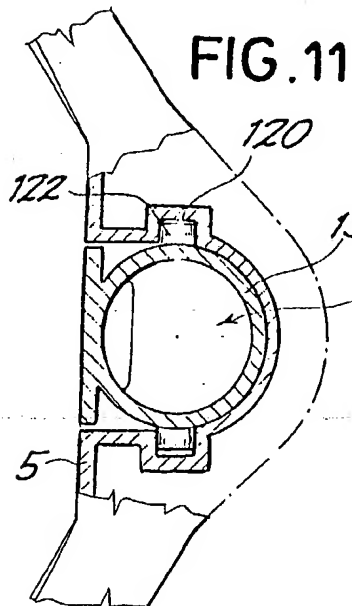
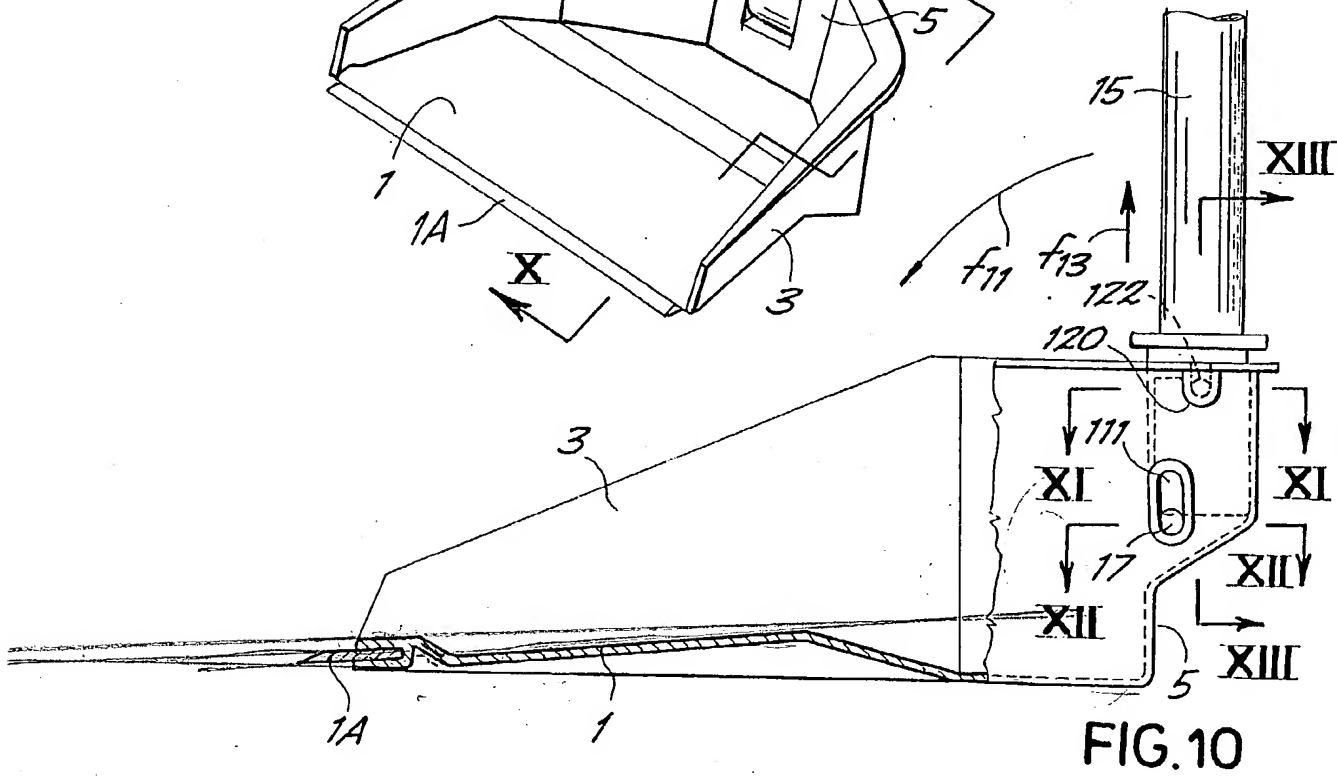
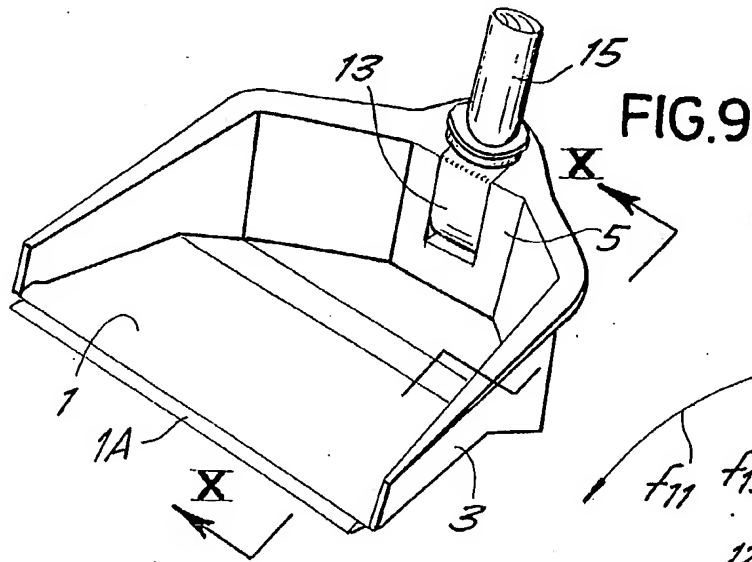
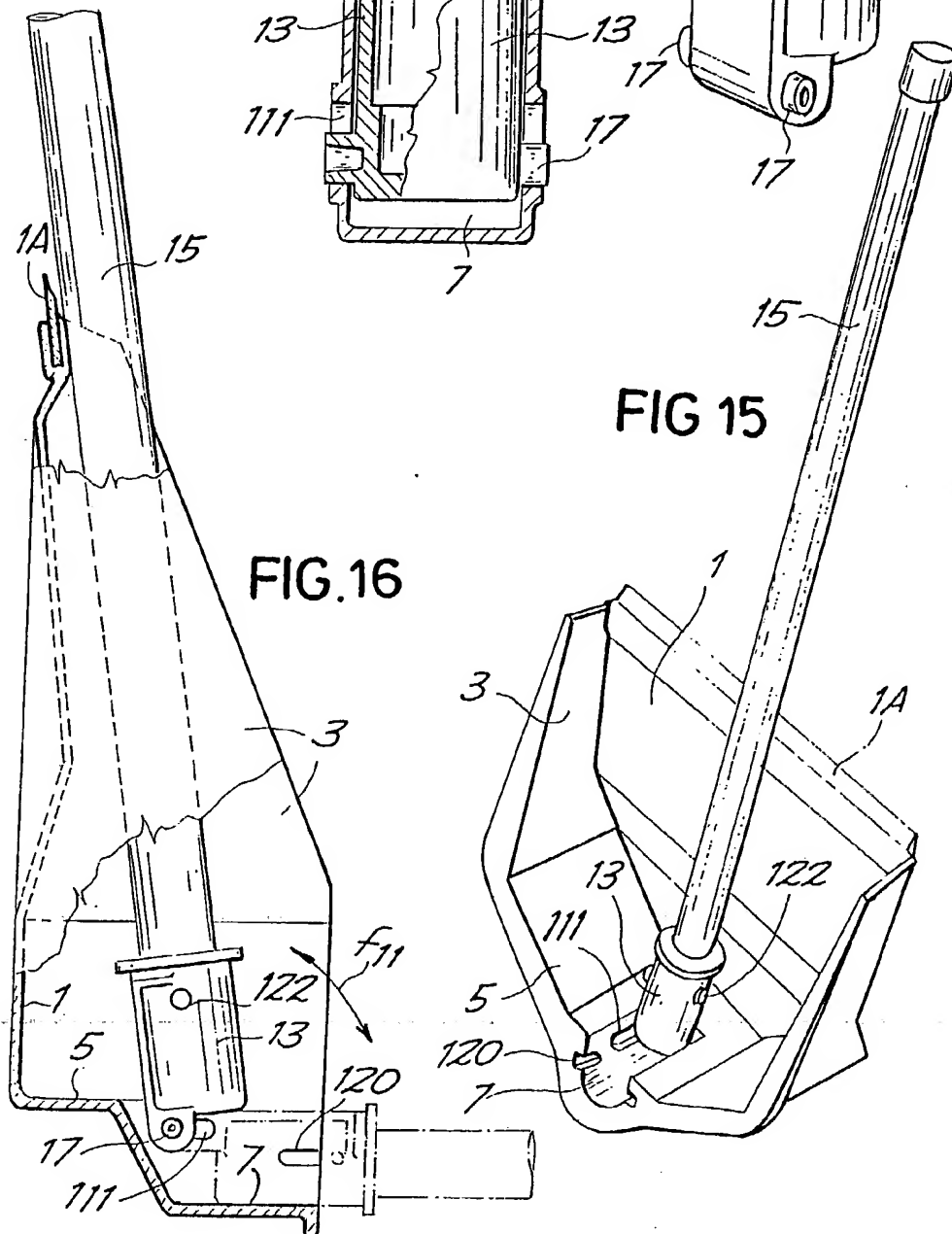
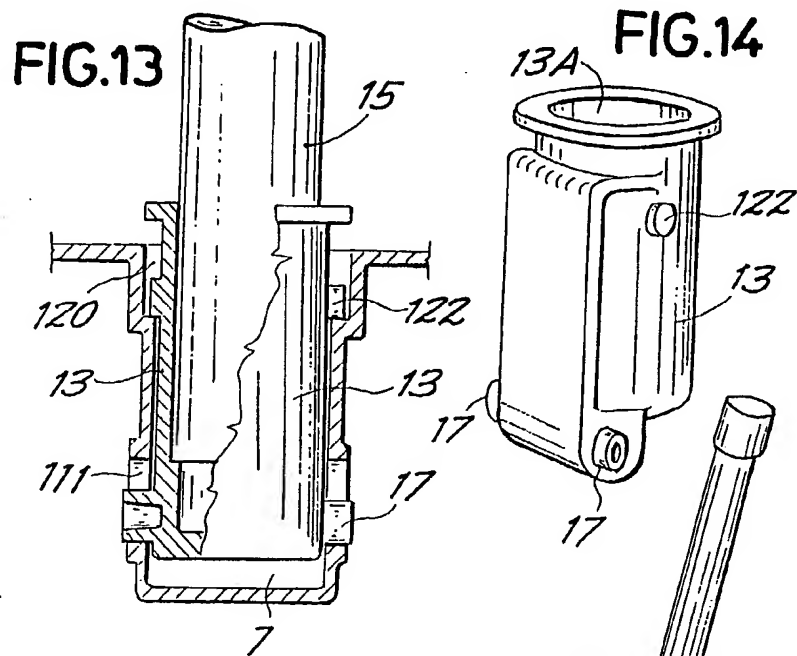


FIG.7



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SPECIFICATION

Garbage-gathering container

- 5 The invention relates to a garbage-gathering box or container, that is a dustbin, for domestic use, comprising a bottom surface with a free front edge—mostly a rectilinear edge—and side and rear outline banks, and having a post (handle), for the grip and handling, which develops from the rear bank. According to the invention said post is inclinable towards and against the container for storage in a small space, and may be put upright again for the usage.

15 The post may be fitted into a glass-shaped seat which is in turn engaged to the bank. Said glass-shaped seat may be received in a niche housing formed by the rear zone of the bank and opened towards the inside of the container or box.

- 20 In a possible embodiment, the glass-shaped seat forms opposite pivot projections for the engagement in opposite facing articulation seats of the niche housing (or vice versa), the engagement being operable through heat deformation of the bank just moulded. Contrast pegs stabilize the position on use of the post and through their elastical yieldings, allow the same post to be inclined towards and against the container.

- 25 In another possible embodiment, the glass-shaped seat makes up opposite pivot projections for the engagement into longitudinally developed seats within which said pivot projections may rotate and slide; in the end part of the niche housing further seats are formed in which pegs, projecting from the glass-shaped seat, can be engaged by a lowering of the stick that has reached the position of use, whereas an opposite movement permits its inclination.

The drawing shows possible embodiments and in particular:

- 30 45 *Figure 1* shows a perspective ensemble view;

Figure 2 shows a section on the line II-II of *Fig. 1*;

- 50 *Figures 3 and 4* show sections on the lines III-III and IV-IV of *Fig. 2*;

Figure 5 is a section on the line V-V of *Fig. 2*;

Figure 6 is a perspective view of a stick-holding element;

- 55 *Figures 7 and 8* show, in perspective view and in partially cutaway side view, the folded unit;

- 60 *Figures 9 and 16* are similar to *Figs. 1 and 8*, *Figs. 10, 11, 12, 13* being sections on the lines X-X of *Fig. 9* and XI-XI, XII-XII, XIII-XIII of *Fig. 10*.

- According to what is illustrated in *Figs. 1 to 8* of the accompanying drawing, numeral 1 indicates the bottom of the collecting container or box shaped with opposite inclinations

to facilitate the retaining of collected dust and remainders and with and edge 1A intended to receive what has been gathered by the broom. Starting from the front free edge 1A,

- 70 outline side banks 3 and rear banks 5 develop, which are shaped to perimetrically define the container. Characteristically, a niche housing 7 formed by the rear bank 5 is provided, this niche having a side aperture towards the bottom surface 1, such aperture corresponding to the maximum cross section, but being able to have limited projections 9 for the restraint. In the lower part of the niche housing a pair of side coaxial holes 11 is formed, these holes serving for the articulation of an element 13, made of synthetic resin; which makes up a glass-shaped seat 13A for the insertion of the stick 15 of the post or handle. The element 13 has two outside peg-shaped projections 17 able to be received into the holes 11 in order to make up the articulation of the element 13 in respect to the housing 7 and to consent the angular movement according to double arrow f1, in the two directions. In this way, the stick 15, which is forcedly fitted into the seat 13A may be brought perpendicular to the bottom 1 or put down against same bottom 1 in order to assume the position of use and the position of minimum dimensions for storage respectively. At least the position of use is defined and maintained due to the presence of the short projections 9 that hold the element 13 which has passed over them to reach the position in which it is completely received in the niche housing 7.

- The mounting of the element 13 with pegs 17 in the holes 11 is easily practicable by deformation of the wall of the bank 5 and of the side walls of the niche housing 7 for a reversible insertion. Suitable tapered invitation shapings may also be provided on the edges and/or at least one of the pegs 17.

- In the embodiment of *Figs. 9 to 16*, like references indicate equal or equivalent elements. The pivot projections 17 are housed in longitudinally developed seats 111 (rather than in the holes 11) so that the element 13, when received in the niche housing 7, may slide axially therein. Said housing 7, along its upper edge, has further seats 120 in which pegs 122 protruding from the element 13 may be engaged.

- By this arrangement, the post 15 is retained in the attitude shown in *Figs. 9, 10 and 13* owing to the engagement of pegs 122 into the seats 120. To allow the inclination of the post 15 together with the element 13 according to f11, it is necessary firstly to lift it according to f13 so as to let the pegs 122 come out of the seats 120; this is possible, for example, by holding the bottom 1 steady on the floor with a foot. To perform the reverse operation, after a shift of the post in the direction opposite to arrow f11, the said

- post is pushed in the direction opposite to arrow f13 thus causing the peg projections 17 to slide along the elongate seats 111 and the pegs 122 to fit into the seats 120. The friction holds the element 13 in the position reached in the housing 7.

CLAIMS

1. A garbage-gathering box or container, that is a dustbin, for domestic use, comprising a bottom surface with a free front edge—mostly a rectilinear edge—and outline side banks and rear bank, and with a post (handle) for the grip and handling, developing from the rear bank, characterized in that said post is inclinable towards and against the container for storage in a small space, and can be put upright again for usage.
2. A dustbin according to claim 1, characterized in that the post is fitted into a glass-shaped seat which is in turn engaged to the rear bank.
3. A dustbin according to claim 2, characterized in that said glass-shaped seat is housed in a niche housing formed by the rear zone of the bank and opened inwardly of the container.
4. A dustbin according to claim 3, characterized in that: the glass-shaped seat forms opposite pivot projections for the engagement in opposite facing seats of the niche housing (or vice versa) for the engagement through heat deformation of the bank just moulded, and the contrast pegs stabilize the position of usage of the glass-shaped element and of the post.
5. A dustbin according to claim 3, characterized in that: the glass-shaped seat forms opposite pivot projections and the housing forms longitudinally developed seats in which said pivot projections are slidably engaged; and at the end of said niche housing seats are formed in which pegs projecting from the glass-shaped element can be fitted to engage the post in the position of usage.
6. A garbage-gathering container substantially as described herein with reference to Figs. 1–8 or Figs. 9–16 of the accompanying drawings.